Customer No.: 31561
Application No.: 10/708,368
Docket No.: 10872-US-PA

AMENDMENTS

To the Claims:

1. (currently amended) An active-matrix organic electroluminescent (OEL) display panel, comprising:

a substrate;

a transparent conductive layer on the substrate;

a first passivation layer on the transparent conductive layer, having a plurality of openings therein exposing portions of the transparent conductive layer, wherein each opening defines a pixel region;

a plurality of thin film transistors arranged as a matrix, wherein the thin film transistors are ~~each comprising a gate electrode, a source and a drain and~~ disposed on the first passivation layer ~~corresponding to an opening~~;

a plurality of organic function layers disposed on the transparent conductive layer in the openings; and

a plurality of metal electrode layers disposed on the organic function layers and electrically connected to the corresponding thin film transistors ~~drains~~.

2. (original) The active-matrix OEL display panel of claim 1, wherein each organic function layer comprises a hole injection layer, a hole transporting layer, an emitting layer and an electron transporting layer that are stacked sequentially.

3. (original) The active-matrix OEL display panel of claim 1, further comprising a second passivation layer disposed on each thin film transistor.

4. (original) The active-matrix OEL display panel of claim 1, wherein the transparent conductive layer includes indium tin oxide (ITO) or indium zinc oxide (IZO).

5. (original) The active-matrix OEL display panel of claim 1, wherein each metal electrode layer includes a LiF/Al composite layer.

6. (currently amended) An active-matrix organic electroluminescent (OEL) display panel, comprising:

a substrate;

a metal layer on the substrate, having a plurality of opening therein exposing portions of the substrate;

a first passivation layer on the metal layer, having a plurality of openings therein aligned with the openings in the metal layer;

a plurality of thin film transistors arranged as a matrix, wherein the thin film transistors are ~~each comprising a gate electrode, a source and a drain and~~ disposed on the first passivation layer ~~corresponding to an opening~~;

a plurality of transparent conductive layers disposed on the substrate in the openings;

a plurality of organic function layers disposed on the transparent conductive layers in the openings; and

a plurality of metal electrode layers disposed on the organic function layers and electrically connected to the corresponding thin film transistors ~~drains~~.

7. (original) The active-matrix OEL display panel of claim 6, wherein each organic function layer comprises a hole injection layer, a hole transporting layer, an emitting layer and an electron transporting layer.

8. (original) The active-matrix OEL display panel of claim 6, further comprising a second passivation layer on the thin film transistors.

9. (original) The active-matrix OEL display panel of claim 6, wherein the transparent conductive layer contains indium tin oxide (ITO) or indium zinc oxide (IZO).

10. (original) The active-matrix OEL display panel of claim 6, wherein the metal electrode layer includes a LiF/Al composite layer.

11. (new) An active-matrix organic electroluminescent (OEL) display panel, comprising:

a substrate;

a conductive layer disposed on the substrate;

a first passivation layer disposed on a portion of the conductive layer, wherein the first passivation layer has a plurality of openings therein exposing portions of the conductive layer, and each opening defines a pixel region;

a plurality of thin film transistors arranged as a matrix, wherein the thin film transistors are disposed on the first passivation layer;

a plurality of organic function layers disposed on the conductive layer in the openings; and

a plurality of electrode layers disposed on the organic function layers and electrically connected to the corresponding thin film transistors.

12. (new) The active-matrix OEL display panel of claim 11, wherein each organic function layer comprises a hole injection layer, a hole transporting layer, an emitting layer and an electron transporting layer that are stacked sequentially.

13. (new) The active-matrix OEL display panel of claim 11, further comprising a second passivation layer disposed on each thin film transistor.

14. (new) The active-matrix OEL display panel of claim 11, wherein the conductive layer includes indium tin oxide (ITO) or indium zinc oxide (IZO).

15. (new) The active-matrix OEL display panel of claim 11, wherein each electrode layer includes a LiF/Al composite layer.